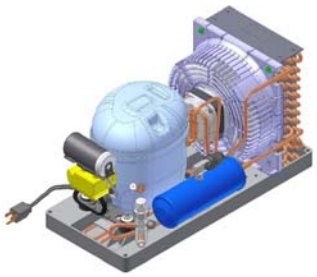
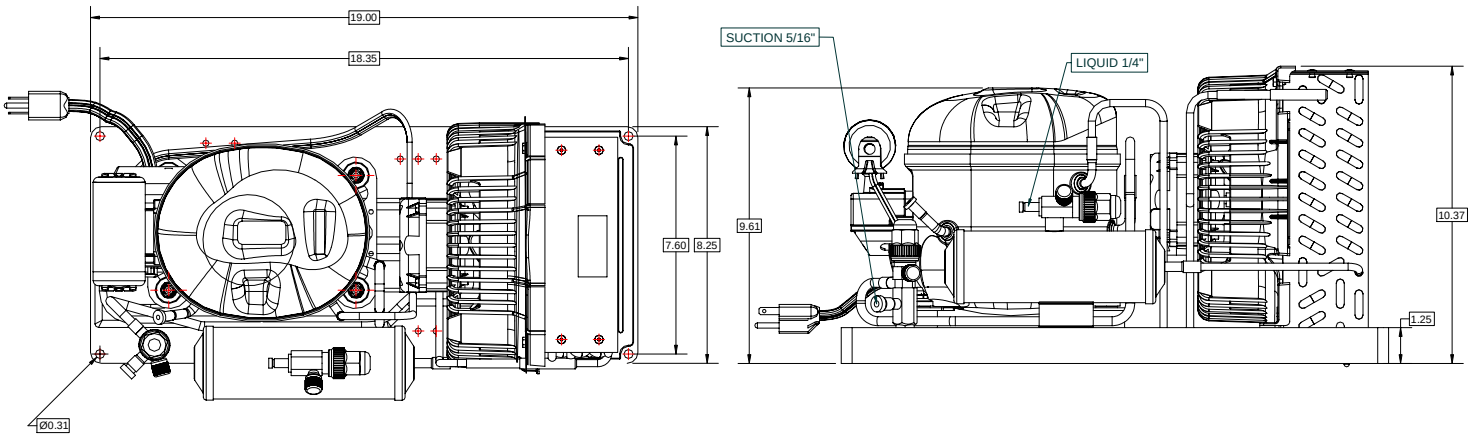
TECUMSEH HERMETIC CONDENSING UNIT

Model	**AE4425Z-AA1AGL, GK, GB, GC**
BOM	**33Y562-2, -3, -4, -5**
Air Cooled	**1/5 HP**
Application	**High/Commercial Temp**
Refrigerant	**R404A**
Volts-Hz-Ph	**115-60-1**





Model	Dimensions, inches (mm)			Line connections		Pumpdown	Air flow	Oil Ch.	Gross wt.
	L	W	H	Suction	Liquid	90% @90°F	CFM	Oz.	Lbs (kg)
AE4425Z-AA1AGL	19 (483)	8.7 (221)	10.3 (262)	5/16 Sweat	1/4 Sweat	n/a	242	16	39.6 (18)
AE4425Z-AA1AGK									
AE4425Z-AA1AGB		9.7 (246)				1.53			40.2 (18.2)
AE4425Z-AA1AGC				5/16 Valve Sweat	1/4 Valve Sweat	1.85			40.8 (18.5)

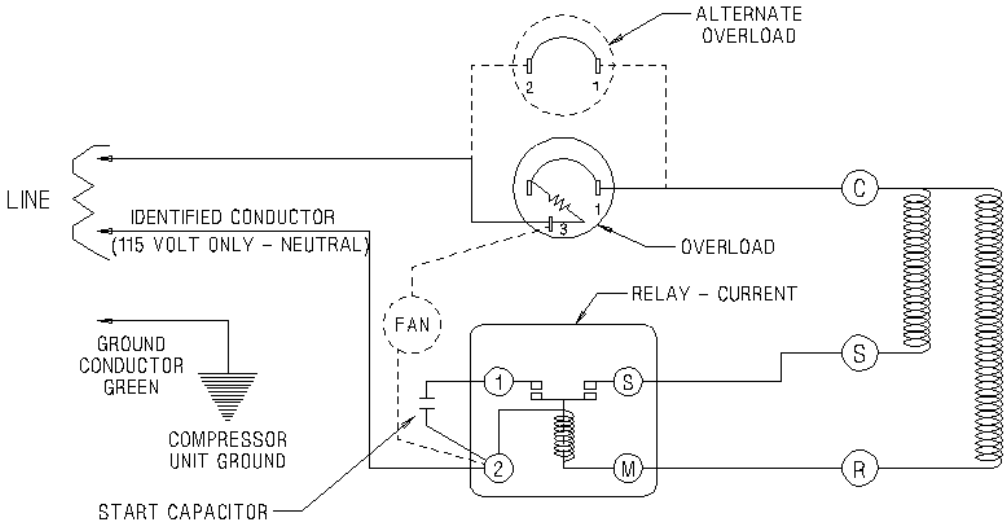
Factory charge 20 psig dry air, **MUST BE EVACUATED**

Evaporator		Ambient Temperatures											
		80°F			90°F			100°F			110°F		
°F	Psig	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T	BTUH	Watts	Cond T
-10	23.9	880	210	94	780	210	103	680	220	112	590	220	121
-5	28.2	1000	230	96	880	230	105	780	230	114	670	240	122
0	32.8	1120	240	98	1000	240	107	870	250	116	760	250	124
5	37.9	1260	250	101	1120	260	109	980	260	118	850	270	126
10	42.4	1400	260	103	1240	270	112	1090	280	120	950	280	128
15	48.2	1540	280	106	1370	280	114	1210	290	122	1050	300	130
20	**54.5**	**1690**	**290**	**109**	**1500**	**300**	**116**	**1320**	**300**	**124**	**1150**	**310**	**132**
25	61.2	1950	310	111	1740	320	119	1550	330	127	1360	340	135
30	68.4	2110	320	114	1890	330	122	1680	340	129	1470	350	137
35	76.1	2270	330	117	2040	340	124	1810	350	132	1580	370	139
40	84.4	2430	340	119	2180	360	127	1930	370	134	1690	380	142

Performance @ 60 Hz, Return gas 40°F below 20°F Evaporator and 65°F above 20°F evaporator, SubCooling 5°F

Parts/Specifications

Unit BOM	**33Y562-2**	Condenser	50733-G04
Unit MODEL	**AE4425Z-AA1AGL**	Shroud	
		Fan Guard	116-003P
Refrigeration RANGE	-10°F to 40°F		
Design Pressure Low	181	Replacement Fan Motor	6W115
Design Pressure High	450	F. M., blade, guard assy	YFBG-106
Volts - HZ - Ph	115-60-1	F. M., blade, guard, shroud assy	
Voltage Range	126.5 to 103.5		
Min. Circuit Ampacity	5.7	Electrical Diagram	DEAE-10
Max. Fuse Size	15	Unit Drawing	DGBU-062
Compressor MODEL	AE4425Z-AA1A	**Unit BOM**	**33Y562-3**
Compressor BOM	AE-1166-E	**Unit MODEL**	**AE4425Z-AA1AGK**
Compressor LRA	27	Power Cord	85106-10
Compressor RLA	4.23	Unit Drawing	DGBU-062
OverLoad	830-10053	**Unit BOM**	**33Y562-4**
Relay	RP6008-ZR	**Unit MODEL**	**AE4425Z-AA1AGB**
Run Capacitor		Receiver	51085-1H
Run Capacitor Rating		Unit Drawing	DGBU-062R
Start Capacitor	85PS165D93		
Start Capacitor Rating	270-324MFD 165V	**Unit BOM**	**33Y562-5**
		Unit MODEL	**AE4425Z-AA1AGC**
Fan Motor	NUT6B06ZUN301	Receiver w/Liquid Valve	51085-1HV
Fan Motor RLA	0.41	Suction Valve	56580-1
Fan Blade	4VEA009	Unit Drawing	DGBU-062V



115 OR 230 VOLT – SCHEMATIC WIRING DIAGRAM – CSIR

REF. DWG. MD472-1

WARNING - WIRING DIAGRAM MUST BE FOLLOWED AS SHOWN. ANY MISWIRING CAN CAUSE SERIOUS ELECTRICAL HAZARD AND POTENTIAL DAMAGE OR RUPTURE OF COMPONENT ELECTRICAL PARTS.

DEAE-10